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EXAMINER

PIZIALI, JEFFREY J

ART UNIT

PAPER NUMBER

2673

DATE MAILED: 11/29/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/424,544	INO ET AL.	
	Examiner Jeff Piziali	Art Unit 2673	
-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --			
Period for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.			
<ul style="list-style-type: none"> - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). 			
Status			
1) <input checked="" type="checkbox"/> Responsive to communication(s) filed on <u>16 September 2002</u> .			
2a) <input checked="" type="checkbox"/> This action is FINAL . 2b) <input type="checkbox"/> This action is non-final.			
3) <input type="checkbox"/> Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims			
4) <input checked="" type="checkbox"/> Claim(s) <u>1-3,5-7 and 10-42</u> is/are pending in the application.			
4a) Of the above claim(s) _____ is/are withdrawn from consideration.			
5) <input type="checkbox"/> Claim(s) _____ is/are allowed.			
6) <input checked="" type="checkbox"/> Claim(s) <u>1-3,5-7 and 10-42</u> is/are rejected.			
7) <input type="checkbox"/> Claim(s) _____ is/are objected to.			
8) <input type="checkbox"/> Claim(s) _____ are subject to restriction and/or election requirement.			
Application Papers			
9) <input type="checkbox"/> The specification is objected to by the Examiner.			
10) <input type="checkbox"/> The drawing(s) filed on _____ is/are: a) <input type="checkbox"/> accepted or b) <input type="checkbox"/> objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
11) <input checked="" type="checkbox"/> The proposed drawing correction filed on <u>27 February 2002</u> is: a) <input checked="" type="checkbox"/> approved b) <input type="checkbox"/> disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.			
12) <input type="checkbox"/> The oath or declaration is objected to by the Examiner.			
Priority under 35 U.S.C. §§ 119 and 120			
13) <input checked="" type="checkbox"/> Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).			
a) <input checked="" type="checkbox"/> All b) <input type="checkbox"/> Some * c) <input type="checkbox"/> None of: 1. <input checked="" type="checkbox"/> Certified copies of the priority documents have been received. 2. <input type="checkbox"/> Certified copies of the priority documents have been received in Application No. _____. 3. <input type="checkbox"/> Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.			
14) <input type="checkbox"/> Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) <input type="checkbox"/> The translation of the foreign language provisional application has been received.			
15) <input type="checkbox"/> Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.			
Attachment(s)			
1) <input type="checkbox"/> Notice of References Cited (PTO-892)		4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ .	
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)		5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)	
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ .		6) <input type="checkbox"/> Other: _____ .	

DETAILED ACTION

Drawings

1. The proposed drawing correction and/or the proposed substitute sheets of drawings, filed on February 27, 2002 have been approved. A proper drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The correction to the drawings will not be held in abeyance.

2. The Patent and Trademark Office no longer makes drawing changes. See 1017 O.G. 4. It is applicant's responsibility to ensure that the drawings are corrected. Corrections must be made in accordance with the instructions below.

INFORMATION ON HOW TO EFFECT DRAWING CHANGES

1. Correction of Informalities -- 37 CFR 1.85

New corrected drawings must be filed with the changes incorporated therein. Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings **MUST** be filed within the **THREE MONTH** shortened statutory period set for reply in the "Notice of Allowability." Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136 for filing the corrected drawings after the mailing of a Notice of Allowability. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

2. Corrections other than Informalities Noted by Draftsperson on form PTO-948.

All changes to the drawings, other than informalities noted by the Draftsperson, **MUST** be made in the same manner as above except that, normally, a highlighted (preferably red

Art Unit: 2673

ink) sketch of the changes to be incorporated into the new drawings **MUST** be approved by the examiner before the application will be allowed. No changes will be permitted to be made, other than correction of informalities, unless the examiner has approved the proposed changes.

Timing of Corrections

Applicant is required to submit acceptable corrected drawings within the time period set in the Office action. See 37 CFR 1.185(a). Failure to take corrective action within the set (or extended) period will result in **ABANDONMENT** of the application.

Priority

3. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

4. The information disclosure statement filed September 16, 2002 fails to comply with 37 CFR 1.98(a)(1), which requires a list of all patents, publications, or other information submitted for consideration by the Office. It has been placed in the application file, but the information referred to therein has not been considered.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 1-3, 5-7, 10-12, and 17-42 are rejected under 35 U.S.C. 102(b) as being anticipated by Takeda et al. (US 4,825,203).

Regarding claim 1, Takeda et al. discloses a liquid crystal display [Fig. 2, 11] comprising: a display portion in which a plurality of pixels [Fig. 2, 11-c] are two-dimensionally arranged at intersecting points of gate lines [Fig. 2, 11-a] as many as a plurality of rows and signal lines [Fig. 2, 11-b] as many as a plurality of columns which are wired in a matrix shape; and a plurality of driver circuits [Figs. 1(A) & 2, 13 & q₁-q_N] for applying a signal potential to each pixel in the display portion through the signal lines of the plurality of columns, characterized in that when the plurality of driver circuits are arranged in order while the numbers of output terminals of the driver circuits are set to a same number [i.e. 1, for instance] so as to have a correspondence relation with each of the signal lines of the plurality of columns, if a fraction [i.e. 1/1 = 1, for instance] occurs in the signal lines of the plurality of columns, the number of output terminals of one of the plurality of driver circuits is set to the fraction (see Column 2, Line 56 - Column 4, Line 68).

Regarding claim 2, Takeda et al. discloses the driver circuits are driver ICs arranged an outside of a transparent insulating substrate on which the display portion is formed (see Fig. 2; Column 2, Line 56 - Column 4, Line 6).

Regarding claim 3, this claim is rejected by the reasoning applied in the above rejection of claim 1; furthermore, Takeda et al. discloses a liquid crystal display [Fig. 2, 11] comprising a display portion in which a plurality of pixels [Fig. 2, 11-c] are two-dimensionally arranged at

intersecting points of gate lines [Fig. 2, 11-a] as many as a plurality of rows and signal lines [Fig. 2, 11-b] as many as a plurality of columns which are wired in a matrix shape; and a plurality of driver circuits [Figs. 1(A) & 2, 13 & q_1-q_n] for applying a signal potential to each pixel in the display portion through the signal lines of the plurality of columns (see Column 2, Line 56 - Column 3, Line 27), characterized in that the number of output terminals of each of the plurality of driver circuits is set to a measure [i.e. 1, for instance] of the total number of signal lines [i.e. N] of the plurality of columns, when a size of a frame portion [Fig. 1(A), q_N] adjacent to the display portion is specified, the number [i.e. n = 1, for instance] of output terminals of each of the driver circuits is determined on the basis of the specified frame size by the number of lines which can be wired into a wiring region of the frame portion, and when the total number of signal lines of the plurality of columns which is decided by a display system is set to N [Fig. 1(A), Q_1 to Q_N], the number of the driver circuits is set to N/n [Fig. 1(A), q_1 to q_N -- wherein $N/1 = N$] (see Column 4, Lines 22-68).

Regarding claim 5, Takeda et al. discloses that the number of output terminals of each of the plurality of the driver circuits is set to a power of 2 (i.e. $2^0 = 1$).

Regarding claim 6, this claim is rejected by the reasoning applied in the above rejection of claim 2.

Regarding claim 7, Takeda et al. discloses a memory circuit [Fig. 1(A), 31] for temporarily storing data [Fig. 1(A), D] to be written into the driver circuits; and a control circuit

[Fig. 2, 15] for controlling the driver circuits so as to simultaneously write different data from the memory circuit (see Column 3, Lines 8-27 & Column 4, Lines 22-68).

Regarding claim 10, Takeda et al. discloses time-divisional switches [Fig. 1(A), 32] for time-divisionally sending a signal potential [Fig. 1(A), V_R , V_G & V_B] which is outputted from each of the plurality of driver circuits to the signal lines of the plurality of columns (see Column 4, Lines 22-46).

Regarding claim 11, Takeda et al. discloses a leading waveform and a trailing waveform of a signal output waveform [Fig. 1(B), C_R , C_G & C_B] of each of the plurality of driver circuits are symmetrical with respect to a time base (see Column 4, Lines 47-68).

Regarding claim 12, Takeda et al. discloses a time-dividing number of the time-divisional switches is equal to three [see Fig. 1(A), 32].

Regarding claim 17, Takeda et al. discloses the plurality of driver circuits generate a signal potential so as to correct shift amounts of curves of voltage-transmittance characteristics of red, green and blue [see Fig. 1(A), V_R , V_G & V_B], by driving the time-divisional switches (see Column 4, Lines 22-46).

Regarding claim 18, Takeda et al. discloses a 1H (H denoting a horizontal scanning period) inversion driving or a 1H common inversion driving, the signal line which is selected

first by the time-divisional switches is a line of blue, the signal line which is selected at the second time is a line of green, and the signal line which is selected at the third time is a line of red [see Fig. 4(B); Row i+2 & Columns j, j+1 and j+2].

Regarding claim 19, Takeda et al. discloses a dot inversion driving, the signal line which is selected first by the time-divisional switches is a line of red, the signal line which is selected at the second time is a line of green, and the signal line which is selected at the third time is a line of blue [see Fig. 5(B); Row i & Columns j, j+1 and j+2].

Regarding claim 20, Takeda et al. discloses time-division of the time-divisional switches distribute signals to red, green and blue constituting one pixel [see Figs. 4(A-B); Column 5, Lines 16-58].

Regarding claim 21, Takeda et al. discloses a surplus connecting region [Fig. 2; 12, 13, & 15] that does not contribute to the display portion [Fig. 2, 11] does not occur on the display (see Column 2, Line 56 - Column 3, Line 27).

Regarding claim 22, Takeda et al. discloses a driver circuit of the plurality of driver circuits is separate and distinct from another driver circuit of the plurality of driver circuits (see Fig. 1(A)).

Regarding claim 23, this claim is rejected by the reasoning applied in the above rejection of claim 21.

Regarding claim 24, this claim is rejected by the reasoning applied in the above rejection of claim 22.

Regarding claim 25, Takeda et al. discloses a liquid crystal display comprising: a display portion [Fig. 2, 11], the display portion having a plurality of gate lines [Fig. 2, 11-a], a plurality of signal lines [Fig. 2, 11-b] and a plurality of pixels [Fig. 2, 11-c], a pixel of the plurality of pixels being located at an intersection of a gate line of the plurality of gate lines and a signal line of the plurality of signal lines; and a plurality of driver circuits [Figs. 1(A) & 2, 13, q₁-q_N], a driver circuit [Fig. 1(A), q₁ & q₂, for instance] of the plurality of driver circuits being separate and distinct from another driver circuit [Fig. 1(A), q_{N-1} & q_N, for instance] of the plurality of driver circuits, each driver circuit of the plurality of driver circuits having a plurality of output terminals [Fig. 1(a), 36], the plurality of output terminals providing a plurality of signal potentials to a group of signal lines [Fig. 1(a), Q₁ & Q₂, for instance] of the plurality of signal lines, the group of signal lines being less than all of the plurality of signal lines [Fig. 1(A), Q₁-Q_N] (see Column 2, Line 56 - Column 4, Line 68).

Regarding claim 26, this claim is rejected by the reasoning applied in the above rejection of claim 22.

Regarding claim 27, Takeda et al. discloses the pixels are arranged in a two-dimensional matrix shape (see Fig. 2).

Regarding claim 28, Takeda et al. discloses the pixel includes a transistor [Fig. 2, 11-d], a gate electrode [Fig. 2, 11-a] of the transistor being electrically connected to the gate line, a source/drain of the transistor [Fig. 2, 11-b] being electrically connected to the signal line (see Fig. 2; Column 2, Lines 56-68).

Regarding claim 29, Takeda et al. discloses the plurality of gate lines is a plurality of rows and the plurality of signal lines is a plurality of columns (see Fig. 2).

Regarding claim 30, Takeda et al. discloses an output terminal [Fig. 1(A), 36] of the plurality of output terminals provides a signal potential of the plurality of signal potentials to the signal line [Fig. 1(A), Q_N] (see Column 4, Lines 22-68).

Regarding claim 31, this claim is rejected by the reasoning applied in the above rejection of claim 21.

Regarding claim 32, Takeda et al. discloses an amount [i.e. N] of signal lines of the plurality of signal lines is connected to the driver circuit, the amount being an integer not less than 1 (see Fig. 1(A) -- wherein N > 1).

Regarding claim 33, Takeda et al. discloses another amount [i.e. N] of signal lines of the plurality of signal lines is connected to the another driver circuit, the amount being equal to the another amount, the another amount being an integer not less than 1 (see Fig. 1(A) -- wherein N > 1).

Regarding claim 34, Takeda et al. discloses a remainder amount [i.e. 2, for instance] of the plurality of signal lines is less than the amount of the plurality of signal lines [i.e. N] (see Fig. 1(A) -- wherein N > 2), the remainder amount being the amount of the plurality of signal lines connected to a remainder driver circuit [Fig. 1(A), q₃ & q₄, for instance] of the plurality of driver circuits, each other driver circuit [Fig. 1(A), q₁ & q₂, for instance] of the plurality of driver circuits being connected to the amount of the plurality of signal lines (see Fig. 1(A)).

Regarding claim 35, Takeda et al. discloses another amount [i.e. 2, for instance] of the output terminals is the amount of the output terminals for the another driver circuit, and the amount is equal to the another amount (see Fig. 1(A)).

Regarding claim 36, Takeda et al. discloses the aggregate number of output terminals [i.e. N] of the plurality of driver circuits is set to a measure of the total number of the signal lines [i.e. 100% of N] (see Fig. 1(A)).

Regarding claim 37, Takeda et al. discloses an output terminal of the plurality of output terminals is electrically connected to an input terminal of a time-divisional switch [Fig. 1(A)],

32], the time-divisional switch providing a signal potential of the plurality of signal potentials to the signal line as a de-multiplexed signal potential (see Column 4, Lines 22-68).

Regarding claim 38, this claim is rejected by the reasoning applied in the above rejection of claim 20.

Regarding claim 39, Takeda et al. discloses the red signal potential is applied to a red pixel of the plurality of pixels, the green signal potential is applied to a green pixel of the plurality of pixels, and the blue signal potential is applied to a blue pixel of the plurality of pixels (see Fig. 2, Column 2, Lines 56-68).

Regarding claim 40, Takeda et al. discloses the fraction [i.e. $1/1 = 1$, for instance] is defined as $(S - (OP * (DC-1)))$, wherein "S" is the total number of signal lines [i.e. N, for instance], "OP" is the total number of output terminals for a driver circuit of the plurality of driver circuits [i.e. 1, for instance], and "DC" is the total number of driver circuits [i.e. N, for instance] (see Fig. 1(A) -- wherein $S - (OP * (DC-1)) = N - (1*(N-1)) = N - (N-1) = N - N + 1 = 1$ = the fraction = $1/1 = 1$).

Regarding claim 41, Takeda et al. discloses that the fraction occurs (see Fig. 1(A) -- wherein $S - (OP * (DC-1)) = N - (1*(N-1)) = N - (N-1) = N - N + 1 = 1$ = the fraction = $1/1 = 1$).

Regarding claim 42, Takeda et al. discloses the remainder amount [i.e. 2, for instance] is defined as ($S - (OP * (DC-1))$), "S" being the total number of the plurality signal lines [i.e. N, for instance], "OP" being the total number of the plurality of output terminals for the driver circuit [i.e. 2, for instance], and "DC" being the total number of the plurality of driver circuits [i.e. N/2, for instance] (see Fig. 1(A) -- wherein $S - (OP * (DC-1)) = N - (2 * (N/2-1)) = N - (N-2) = N - N + 2 = 2$ = the remainder amount = 2).

Claim Rejections - 35 USC § 103

7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

8. Claims 13-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Takeda et al. (US 4,825,203) in view of Uchino et al. (US 5,936,617).

Regarding claim 13, Takeda et al. does not expressly disclose a period of time which is selected by the time-divisional switches is equal to or shorter than a third of a horizontal scanning period. However, Uchino et al. discloses a liquid crystal display [Fig. 6, 11] comprising a display portion in which a plurality of pixels [Fig. 6, PXL] are two-dimensionally arranged at intersecting points of gate lines [Fig. 6, X] as many as a plurality of rows and signal lines [Fig. 6, Y] as many as a plurality of columns which are wired in a matrix shape; and a plurality of driver circuits [Fig. 6, 22] for applying a signal potential to each pixel in the display portion through the signal lines of the plurality of columns, characterized in that the number of

output terminals of each of the plurality of driver circuits is set to a measure of the total number of signal lines of the plurality of columns (see Column 7, Lines 3-45); time-divisional switches [Fig. 6, HSW] for time-divisionally sending a signal potential [Fig. 6, Vsig out] which is outputted from each of the plurality of driver circuits to the signal lines of the plurality of columns; wherein a time-dividing number of the time-divisional switches is equal to three; and a period of time which is selected by the time-divisional switches is equal to or shorter than a third of a horizontal scanning period (see Fig. 7; Column 7, Line 46 - Column 8, Line 6).

Takeda and Uchino are analogous art because they from the shared field of driving liquid crystal displays. Therefore, it would have been obvious to one skilled in the art at the time of invention to use Uchino's signal waveform timing techniques with Takeda's driver circuitry, so as to prevent display picture quality deterioration.

Regarding claim 14, Uchino et al. discloses a leading time and a trailing time of each of the plurality of driver circuits are equal to or shorter than the period of time which is selected by the time-divisional switches (see Fig. 7; Column 7, Line 46 - Column 8, Line 6).

Regarding claim 15, Uchino et al. discloses a blanking period which is caused for the period of time selected by the time-divisional switches is equal to or shorter than [(a horizontal scanning period) - (the period of time selected by the time-divisional switches x 3)] / 3 (see Fig. 7; Column 7, Line 46 - Column 8, Line 6).

Regarding claim 16, Uchino et al. discloses the plurality of driver circuits have a function to stop the operation of their output circuit for the blanking period (see Fig. 7; Column 7, Line 46 - Column 8, Line 6).

Claim Rejections - 35 USC § 112

9. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

10. Claims 38 and 40-42 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

11. Claim 38 recites the limitation "said time-division switch" in lines 1-2. There is insufficient antecedent basis for this limitation in the claim.

12. The claims are generally narrative and indefinite, failing to conform with current U.S. practice. They appear to be a literal translation into English from a foreign document and are replete with grammatical and idiomatic errors. See specifically, claims 40 and 42, which both utilize the grammatically unclear, "is defines" in line 2.

13. Claim 41 is rejected under 35 U.S.C. 112, second paragraph, due to being dependent upon rejected base claim 40.

Response to Arguments

14. Applicants' arguments filed September 16, 2002 have been fully considered but they are not persuasive. Firstly, the applicants contend Takeda fails to teach that if a fraction occurs in the signal lines of the plurality of columns, the number of output terminals of one of the plurality of driver circuits is set to the fraction. The examiner respectfully disagrees. Takeda discloses that if a fraction [wherein one such fraction is $1/1 = 1$] occurs in the signal lines of the plurality of columns, the number of output terminals of one of the plurality of driver circuits is set to the fraction [i.e. 1] (see Fig. 1(A) and Column 2, Line 56 - Column 4, Line 68).

Additionally, the applicants argue Takeda fails to teach the total number of signal lines as set to N, and that instead, an indeterminate amount of signal lines [Fig. 2, 11-b] are present. However, the examiner must again respectfully disagree. Takeda discloses exactly N signal lines [Fig. 1(A), Q_1 to Q_N] (see Column 4, Lines 22-68).

Further, the applicants contend Takeda teaches only one drive circuit [Fig. 2, 13]. However, the examiner disagrees. Takeda's explicitly discloses plural drive circuits [Fig. 1(A), q_1 to q_N] (see Column 4, Lines 22-68).

And finally, the applicants contend Takeda fails to teach each driver circuit of the plurality of driver circuits having a plurality of output terminals, the plurality of output terminals providing a plurality of signal potentials to a group of signal lines of the plurality of signal lines, the group of signal lines being less than all of the plurality of signal lines. The examiner respectfully disagrees. Takeda discloses each driver circuit [Fig. 1(A), q_1 & q_2 , for instance] of the plurality of driver circuits [Figs. 1(A) & 2, 13, q_1 - q_N] having a plurality of output terminals [Fig. 1(a), 36], the plurality of output terminals providing a plurality of signal potentials to a

group of signal lines [Fig. 1(a), Q₁ & Q₂, for instance] of the plurality of signal lines [Fig. 1(A), Q₁-Q_N], the group of signal lines being less than all of the plurality of signal lines (see Column 2, Line 56 - Column 4, Line 68). By such reasoning, rejection of the claims is deemed proper and thereby maintained.

Conclusion

15. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeff Piziali whose telephone number is (703) 305-8382. The examiner can normally be reached on Monday - Friday (6:30AM - 3PM).

Art Unit: 2673

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on (703) 305-4938. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.



J.P.

November 25, 2002



BIPIN SHALWALA
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2000